PCT

WIPO / 516623

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BPCL 9818			ent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/GB 03/02347				International filing date (c. 29.05.2003	day/mon	th/year)	Priority date (day/month/year) 12.06.2002
	nationa 7C51/		ent Classification (IPC) or bo	oth national classification a	nd IPC		
1	icant CHE	VICA	LS LIMITED				
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and Is transmitted to the applicant according to Article 36. 						
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	These annexes consist of a total of sheets.						
				the fellowing the			
3.			rt contains indications rel	ating to the tollowing ite	ems:		
	1	Ø	Basis of the opinion			•	
	11		Priority			•	
	111			•	o novelty, inventive step and industrial applicability		
	V V	☒					inventive step or industrial applicability;
,	VI		Certain documents cite				
	VII		Certain defects in the i	nternational application			
	VIII			n the international appli	cation		
Date of submission of the demand				Date of	completion of	this report	
22.1	22.12.2003				07.07	.2004	
Nam	Name and mailing address of the international				Authori	zed Officer	netics Polance
prellminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			Bedel	, C one No. +49 89	2399-2506		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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I. Basi:	s of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	Description, Pages							
	1-2	22	as originally filed						
	Cla	Claims, Numbers							
	1-20		as originally filed						
	Dra	awings, Sheets							
	1/2	-2/2	as originally filed						
2.	Wit lan	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.							
	Ţħ6	ese elements were av	vailable or furnished to this Authority in the following language: , which is:						
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1	(b)).					
			lication of the international application (under Rule 48.3(b)).						
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (und	ler					
3.	Wit inte	h regard to any nucl e rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:	ıë ·					
		contained in the inte	rnational application in written form.						
		filed together with th	e international application in computer readable form.						
		furnished subsequer	ntly to this Authority in written form.						
		furnished subsequer	ntly to this Authority in computer readable form.						
	The statement that the subsequently furnished written sequence listing does not go beyond in the international application as filed has been furnished.								
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequished.	uence					
4.	The	amendments have r	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						

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PCT/GB 03/02347

5. 🛘	This report has been established as if (some of) the amendments had r	not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).	

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims

No: Claims 1-19

V---- 01-1

Yes: Claims

No: Claims 1-19

Industrial applicability (IA) Yes: Claims 1-19

No: Claims

2. Citations and explanations

see separate sheet

Inventive step (IS)



D1: EP-A-0849248 (cited in application)

D2: EP-A-0849250

D1 discloses a process for making acetic acid from methanol and carbon monoxide in the presence of an iridium catalyst, methyl iodide, water, acetic acid, methyl acetate, and one promoter (ruthenium) as well as a co-promoter which is an alkali metal iodide (see claim 11, Lil, see claim12) or any metal complex capable of generating an iodide Crl3). The molar ratio of co-promoter to iridium (called lithium/iridium ratio in claim 19 but the lithium is always added with iodide as counter anion see claim 12 and examples) is from [0,5 to 1,5]:1, while the molar ratio Ru/Ir is from [0.5 to 15]:1, preferably [2 to 7.5]:1 (see p.3, I.58). The Ru/Ir molar ratio is 2:1 in the examples, however, D1 teaches clearly that a higher Ru/Ir ratio is conceivable (see p.3, last paragraph and claim 10).

A skilled person would have worked in the range above 2:1 because nothing in D1 teaches away from this solution. Furthermore, D2 teaches clearly that a Ru/Ir molar ratio above 2:1 can enhance the carbonylation rate (see D2 p.7 in table, compare the Ru/Ir molar ratio and the carbonylation rate of ex.3-5 with data of ex.1-2).

Therefore claim 1 cannot be considered as novel nor inventive over D1 alone and in combination with D2.

The technical features of dependant claims 2-20 can be derived from the prior art D1 and/or D2 and therefore they can not serve as a basis for assessing inventive step (Art.56 EPC).

Further remarks:

On page 2, a document of the prior art is wrongly cited ("WO-A-96/237757"), it should read WO-A-96/23757.